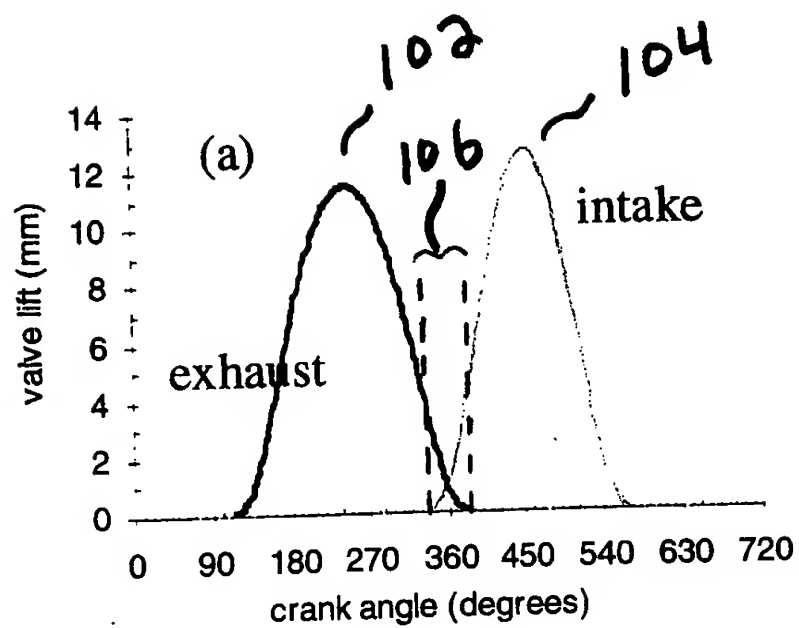


FIG. 1. Prior Art



The diagram illustrates a VVT system (200) with a mechanical camshaft (212) and a VVA control unit (216). The VVA control unit is connected to an ECU (214) and a TC control unit (230). The TC control unit is connected to a water pump (220) via a line (218). The water pump is connected to a cooling system (222) that includes an intercooler (226). The cooling system is connected to the VVT system (200) via a line (224). The VVT system (200) includes a camshaft (202) and a valve (208). The valve is connected to the cooling system (222) via a line (210). The cooling system (222) is connected to the VVT system (200) via a line (204). The cooling system (222) is connected to the VVT system (200) via a line (228).

Fig. 2

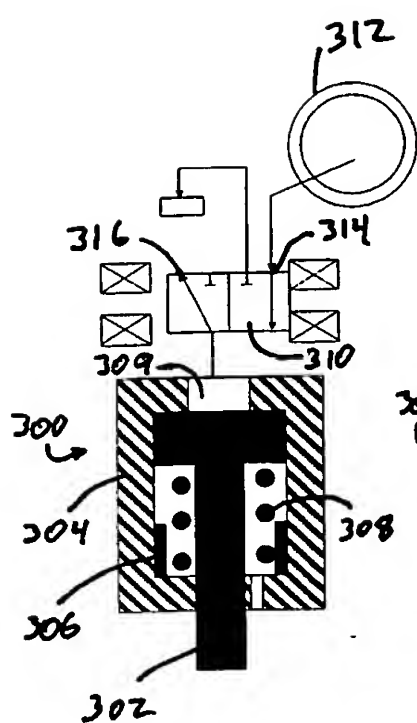


Fig. 3

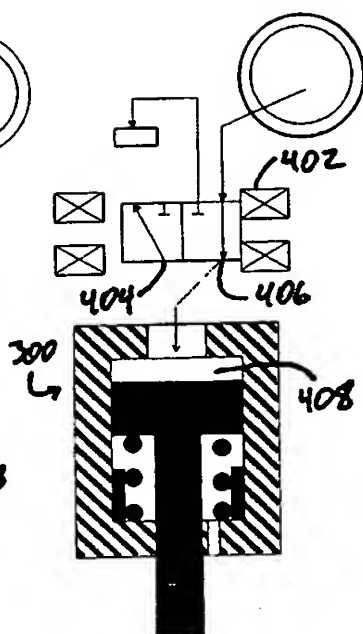


Fig. 4

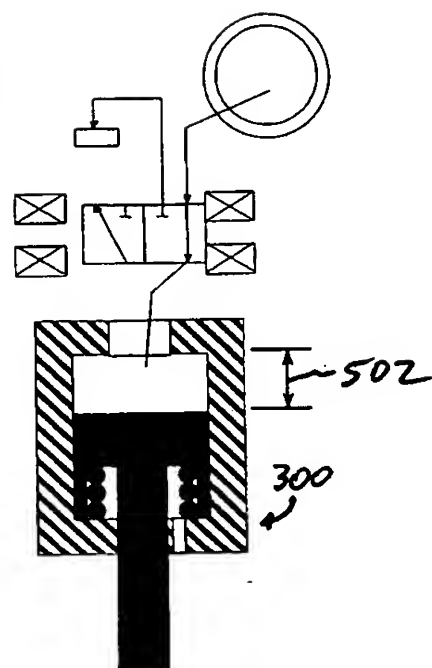


Fig. 5

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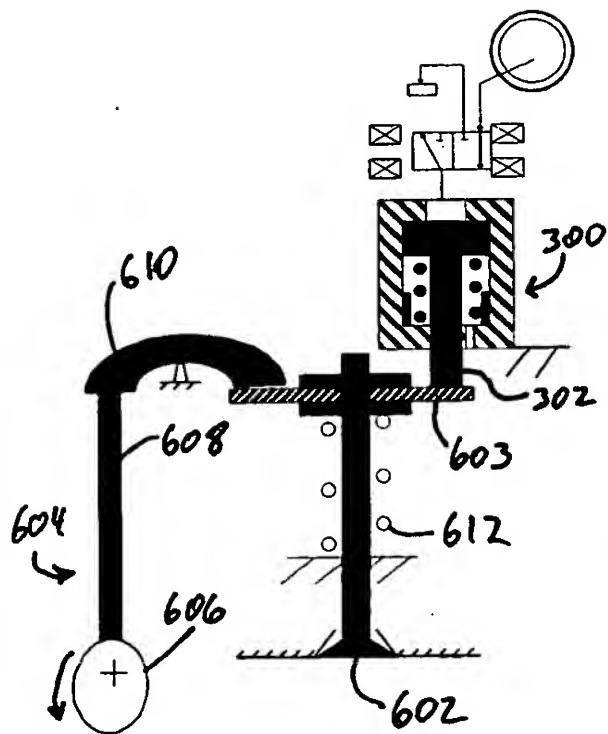


Fig. 6

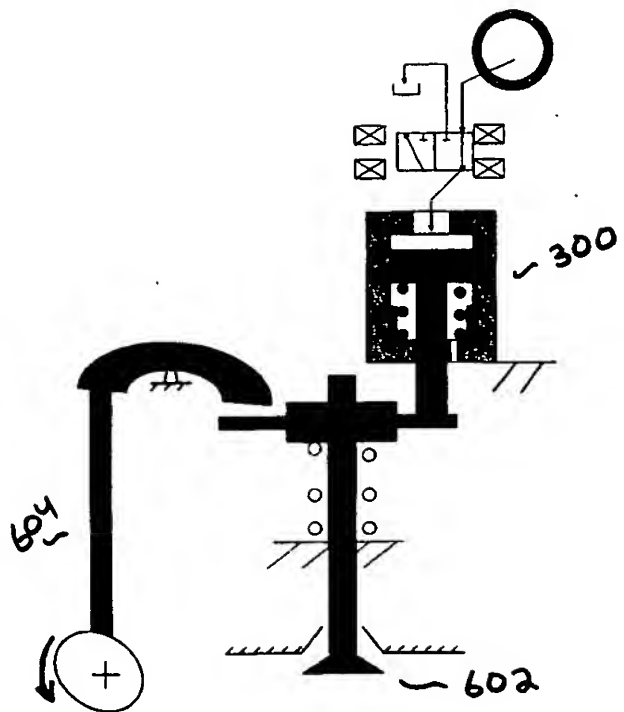


Fig. 7

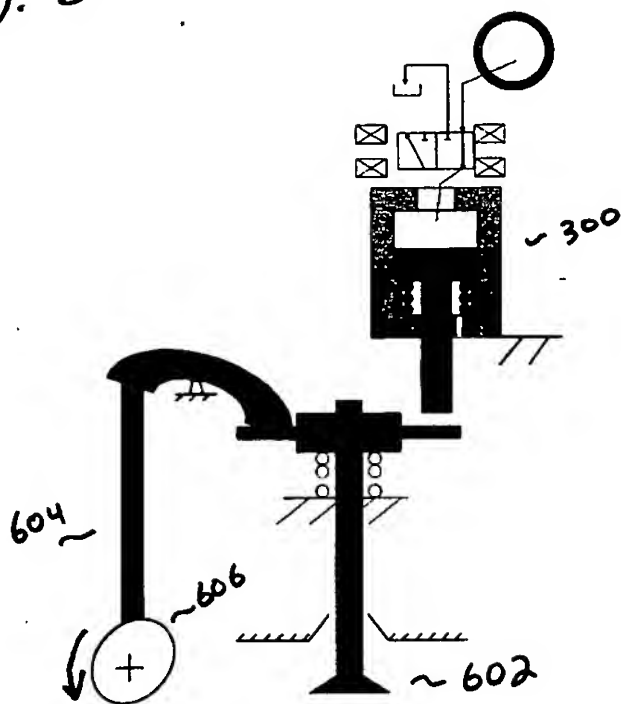


Fig. 8

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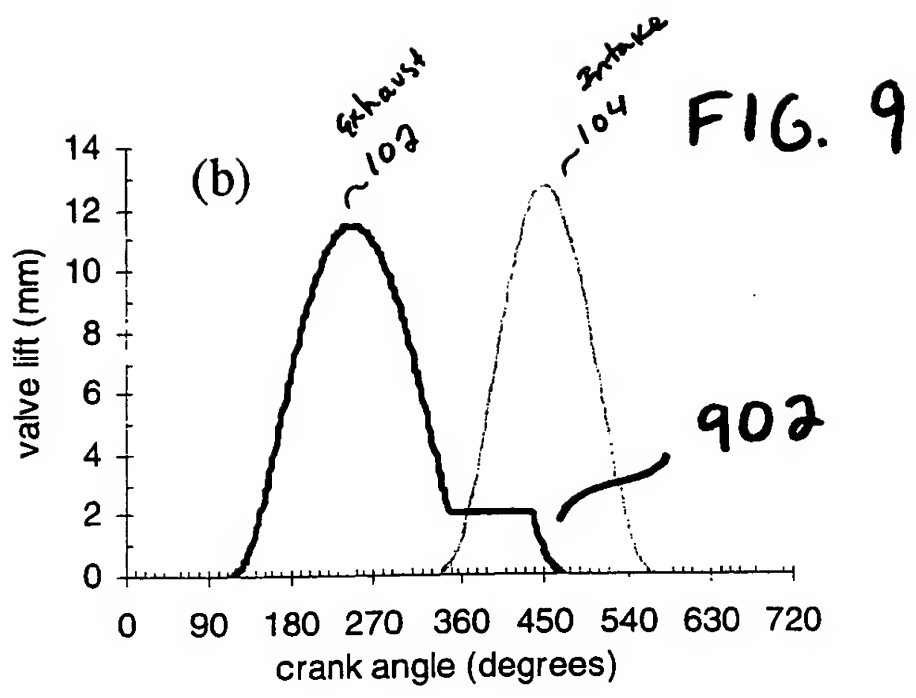


FIG. 10

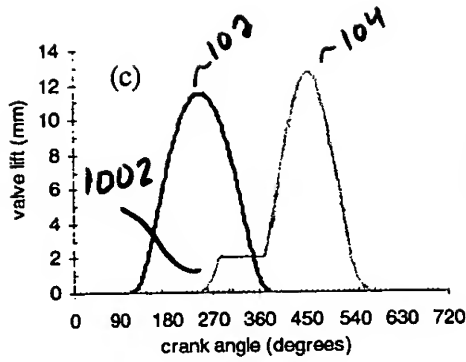


FIG. 11

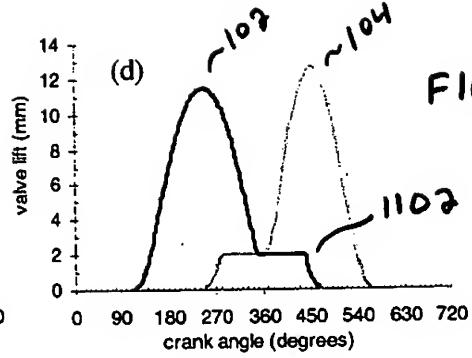


FIG. 12

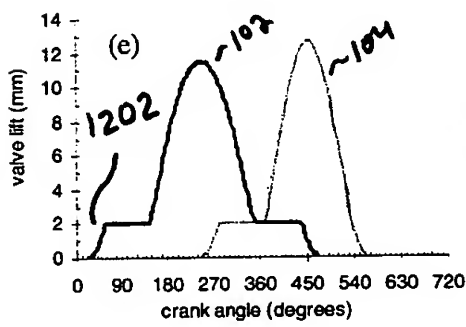


FIG. 13

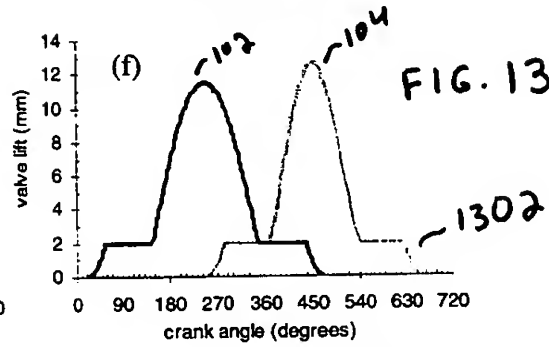


FIG. 14

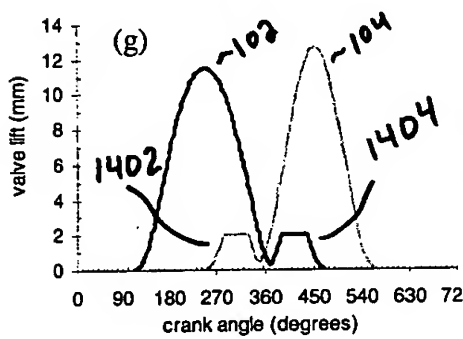
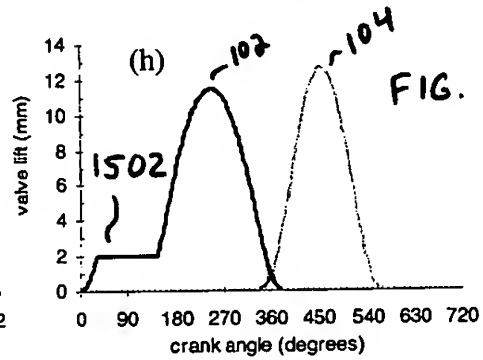


FIG. 15



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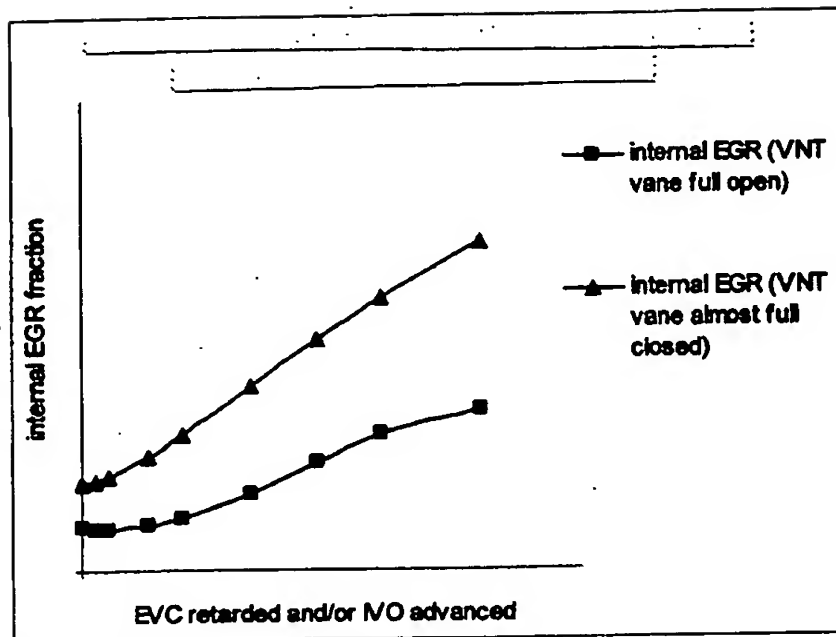


Fig. 16

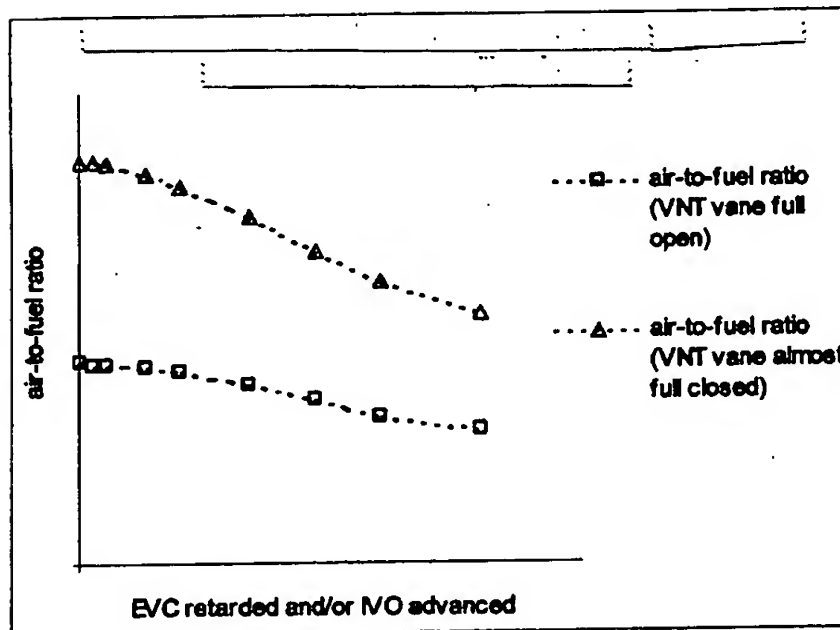


Fig. 17

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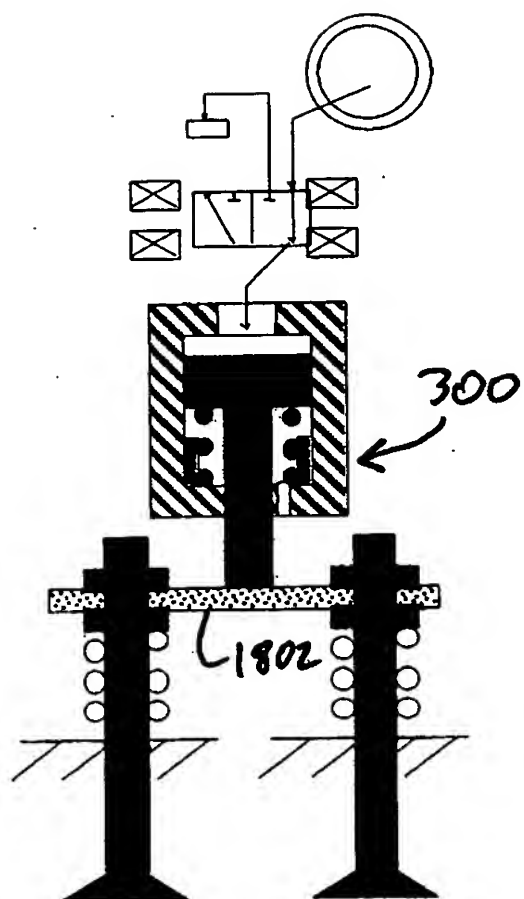


Fig. 18



10067230 030402

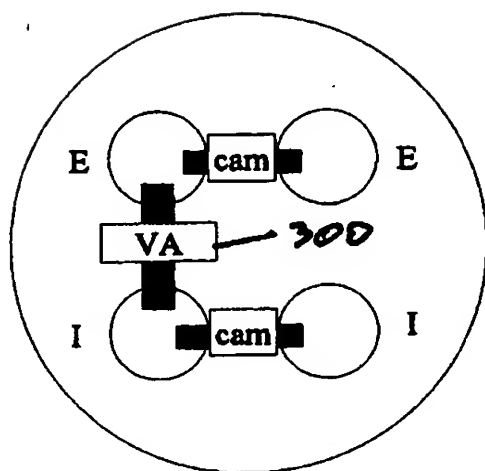


Fig. 19

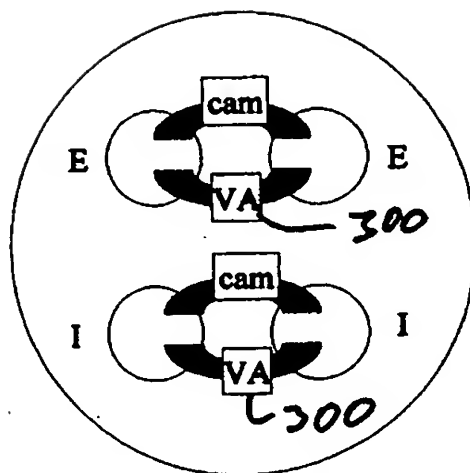


Fig. 20